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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/645,160	08/21/2003	Frank Louwet	223614	4 7606	
23460	7590 02/10/2005		EXAMINER		
	OIT & MAYER, LTD	SCHILLING, RICHARD L			
	ENTIAL PLAZA, SUITI STETSON AVENUE	ART UNIT	PAPER NUMBER		
CHICAGO, I	L 60601-6780		1752		

DATE MAILED: 02/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		 			V		
		Applicati	on No.	Applicant(s)			
Office Action Summary		10/645,1	60	LOUWET ET AL.			
		Examine	•	Art Unit			
		Richard L	Schilling	1752			
Period f	The MAILING DATE of this communication Reply	n appears on th	e cover sheet with	the correspondence addres	s		
THE - Exte after - If th - If NO - Failt Any	IORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATI ensions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communication e period for reply specified above is less than thirty (30) days, of period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the led patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no evon. , a reply within the state period will apply and w statute, cause the app	ent, however, may a reply utory minimum of thirty (3 ill expire SIX (6) MONTH dication to become ABAN	/ be timely filed i0) days will be considered timely. S from the mailing date of this commur DONED (35 U.S.C. § 133).	nication.		
Status					•		
1)	Responsive to communication(s) filed on						
2a)□			on-final				
3)	This action is FINAL . 2b)⊠ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims						
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-42</u> is/are pending in the application of the above claim(s) is/are with Claim(s) <u>8-14 and 22-35</u> is/are allowed. Claim(s) <u>1,5,6,15,19,20,36,40 and 41</u> is/a Claim(s) <u>2-4,7,16-18,21,37-39 and 42</u> is/a Claim(s) are subject to restriction as	hdrawn from co are rejected. are objected to.					
Applicat	ion Papers						
9)[The specification is objected to by the Exa	miner.					
10)⊠	The drawing(s) filed on 21 August 2003 is	/are: a)⊠ acce	pted or b)□ obje	cted to by the Examiner.			
	Applicant may not request that any objection to	o the drawing(s) l	e held in abeyance	. See 37 CFR 1.85(a).			
11)	Replacement drawing sheet(s) including the contraction of the contraction is objected to by the contraction is objected to by the contraction of t	•		•	` ,		
	under 35 U.S.C. § 119						
_	•		d==051100004	40(-) (-l) (Ô			
а)	Acknowledgment is made of a claim for fo All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Besee the attached detailed Office action for a	ments have bee ments have bee priority documo ureau (PCT Rul	en received. en received in App ents have been re e 17.2(a)).	lication No ceived in this National Stag	je		
Attachmen	• •						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94)	8)		mary (PTO-413) fail Date			
3) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/S er No(s)/Mail Date <u>8-21-03</u> .			mal Patent Application (PTO-152)	1		

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(b) the invention was patented or described in a
printed publication in this or a foreign country or in
public use or on sale in this country, more than one
year prior to the date of application for patent in the
United States.

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The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5 and 6 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Mutsaers et al. Mutsaers et al. (see particularly column 2, lines 4-61; column 3, line 29 - column 4, line 8) discloses a substantially transparent conductive layer configuration comprising a first layer of conductive polymer, i.e. thiophene polymer, and a second layer of non-continuous

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conductive silver. The silver conductive pattern is photographically formed by imagewise exposing the polythiophene layer and then plating silver thereon as a function of imagewise exposure, i.e. the silver is plated by a photographic process. If Mutsaers et al. do not anticipate the instant claims, then it would at least be obvious to one skilled in the art to use the disclosed silver as the plating metal on the unexposed areas of the polythiophene layer in Mutsaers et al.

2. Claims 15, 19, 20,36,40 and 41 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over International Publication 98/54767. The international publication (see particularly the Abstract) discloses electroluminescent devices with combination electrodes of a first layer of conductive polymer and a second layer of conductive inorganic metal. Applicants' specification discusses this reference on page 2, line 40 - page 3, line 27, wherein applicants disclose that the polymer in the international publication is polythiophene and the metal can be silver with working Example 2 having silver conductive patterns. Even though the silver containing pattern may be disclosed as not being applied by a photographic process, the pattern still may be inherently applied by a photographic process, e.g. a printing plate, mask or stencil made photographically such as by using a

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photoresist.

- 3. Claims 2-4, 6, 7, 16-18,21, 37-39 and 42 are objected to as depending on rejected claims but would be allowable if written in proper independent form.
- Jonas et al. is cited of interest in the art as 4. disclosing electroluminescent devices with conductive polymer Merry, Stephenson and Blake are cited of interest in the art as disclosing photographic methods for making silver conductive patterns using silver halide photographic processes. Stephenson discloses processes comprising rehalogenating silver images. Majumdar et al. and Viaene et al. are cited of interest in the art as disclosing photographic silver halide elements comprising conductive antistatic layers of polythiophene The silver halide emulsions are not used to make polymers. conductive patterns. Andriessen is cited of interest in the art as disclosing conductive layers comprising polythiophene and silver. Cloots et al. is cited of interest in the art as disclosing various devices containing polythiophene conductive layers with conductive patterns. The prior art submitted by applicants has been considered.
- 5. Any inquiry concerning this communication should be directed to Mr. Schilling at telephone number (571) 272-1335.

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RLSchilling:cdc

February 9, 2005

RICHARD L. SCHILLING PRIMARY EXAMINER
GROUP-1100 / /